NASA THESAURUS SUPPLEMENT

JULY 1984

A three part cumulative supplement to the 1982 edition of the NASA Thesaurus
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INTRODUCTION

The NASA Thesaurus Supplement replaces the former 6-Month Cumulative Listing of the NASA Thesaurus Changes. This cumulative supplement to the NASA Thesaurus 1982 edition, incorporates all of the information normally contained in the previous publication as well as two new features: complete hierarchies and access vocabulary. It is hoped that the additional information and the improved legibility will make this a more useful product than its predecessor. Subsequent issues of the supplement will be cumulative and will be issued every six months. For detailed information on the use of the NASA Thesaurus Supplement, consult the front matter of the NASA Thesaurus 1982 edition.

Users are encouraged to consult the online NASA Thesaurus for the most complete and up-to-date information. Addenda to old hierarchies in the 1982 edition of the NASA Thesaurus are not given because they are readily found in the online NASA Thesaurus. Inclusion of such a feature would have substantially increased the size of the publication. In using the hierarchies in the online NASA Thesaurus, users are cautioned that these hierarchies list broad and narrow terms and not their interrelationships. The online NASA Thesaurus does not show the exact relationship when there are more than three broad and/or narrow terms.

New terms to this issue are indicated with a bullet and larger type. Designed for browsability, each new term appears in the format of the following example:

• Earthnet

Many times cross references are later made postable terms. These are shown in Part 3. When new cross references are added to older terms, the term that is referred to is not listed unless it is also a new term. For older terms check the printed or the online NASA Thesaurus.

Many Comments or suggestions about this publication, including suggestions for new terms, should be directed to the Lexicographer, NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, Maryland 21240.
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A

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    . . A-310 AIRCRAFT
    . JET AIRCRAFT
    . . EUROPEAN AIRBUS
    . . . A-310 AIRCRAFT
    PASSenger AIRCRAFT
    . EUROPEAN AIRBUS
    . . A-310 AIRCRAFT
    TRANSPORT AIRCRAFT
    . SHORT HAUL AIRCRAFT
    . . EUROPEAN AIRBUS
    . . . A-310 AIRCRAFT
  RT INTERNATIONAL COOPERATION
  SWEPT WINGS

• A-320 AIRCRAFT
  GS COMMERCIAL AIRCRAFT
    . EUROPEAN AIRBUS
    . . A-320 AIRCRAFT
    . JET AIRCRAFT
    . . EUROPEAN AIRBUS
    . . . A-320 AIRCRAFT
    PASSenger AIRCRAFT
    . EUROPEAN AIRBUS
    . . A-320 AIRCRAFT
    TRANSPORT AIRCRAFT
    . SHORT HAUL AIRCRAFT
    . . EUROPEAN AIRBUS
    . . . A-320 AIRCRAFT
  RT INTERNATIONAL COOPERATION
  SWEPT WINGS

ACCOUNTING
  RT BUDGETING
  COSTS
  FINANCE

ACCRETION DISKS
  RT ASTROPHYSICS
  BINARY STARS
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  DISKS (SHAPES)
  ECLIPSING BINARY STARS
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  ROTATING DISKS
  STELLAR MASS ACCRETION

ACEE PROGRAM
  UF AIRCRAFT ENERGY EFFICIENCY
  PROGRAM
  ENERGY EFFICIENCY TRANSPORT
  PROGRAM
  GS PROGRAMS
  . NASA PROGRAMS
  . . ACEE PROGRAM
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  COMBUSTION EFFICIENCY

ADA (PROGRAMMING LANGUAGE)
  GS LANGUAGES
  . ADA (PROGRAMMING LANGUAGE)
  RT COMPUTER PROGRAMMING
  EMBEDDED COMPUTER SYSTEMS

AEREOASSIST
  RT AEROBRACING
  AEROCAPTURE
  AEROMANEUVERING
  INTERPLANETARY TRANSFER ORBITS
  TRANSFER ORBITS

AEROBRAKING/(CONT.)
AEROCAPTURE
AEROMANEUVERING
INTERPLANETARY TRANSFER ORBITS
TRANSFER ORBITS

AEROCAPTURE
  RT AEROASSIST
  AEROBRAKING
  AEROCAPTURE
  AEROMANEUVERING
  ATMOSPHERIC ENTRY
  INTERPLANETARY TRANSFER ORBITS
  TRANSFER ORBITS

AEROELASTIC RESEARCH WINGS
  GS AIRFOILS
    . WINGS
    . . AEROELASTIC RESEARCH WINGS
  RT AIRCRAFT DESIGN

AEROMAGNETISM
  RT AERIAL RECONNAISSANCE
  GEOMAGNETISM
  MAGNETIC ANOMALIES
  MAGNETIC SURVEYS
  MAGNETIC VARIATIONS
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AEROMANEUVERING
  RT AEROASSIST
  AEROBRAKING
  AEROCAPTURE
  ATMOSPHERIC ENTRY
  INTERPLANETARY TRANSFER ORBITS
  TRANSFER ORBITS

AGROPHYSICAL UNITS
  RT AGRICULTURE
  AGRISTARS PROJECT
  FARM LANDS
  LARGE AREA CROP INVENTORY
  EXPERIMENT

AIR START
  GS STARTING
  . AIR START
  RT AIRCRAFT CONTROL
  AIRCRAFT ENGINES
  ENGINE CONTROL
  FLIGHT TESTS

AIRCRAFT ENERGY EFFICIENCY PROGRAM
  USE AEROE PROGRAM

• AIRCRAFT POWER SUPPLIES
  GS ELECTRIC POWER SUPPLIES
    . AIRCRAFT POWER SUPPLIES
  RT AIRCRAFT EQUIPMENT
    AUXILIARY POWER SOURCES
    ELECTRIC GENERATORS
    . POWER SUPPLIES

ALBERTA
  GS NATIONS
    . CANADA
    . . ALBERTA

• ALLENDE METEORITE
  GS CELESTIAL BODIES
  . METEORITES
  . STONY METEORITES
  . . CHONDRITES
  . . . CARBONACEOUS CHONDRITES
  . . . . ALLENDE METEORITE

ANIK SATELLITES
  GS CANADIAN SPACECRAFT
    . ANIK SATELLITES
    . . ANIK 1
    . . . ANIK 2
    . . . . ANIK 3
  SATELITES
    . ARTIFICIAL SATELLITES
    . SYNCHRONOUS SATELLITES
    . . ANIK SATELLITES
    . . . ANIK 1
    . . . . ANIK 2
    . . . . . ANIK 3
  EARTH SATELLITES
  . SYNCHRONOUS SATELLITES
  . . ANIK SATELLITES
    . . ANIK 1
    . . . ANIK 2
    . . . . ANIK 3

RT INTERNATIONAL COOPERATION
CLOUDS
  . CLOUDS (METEOROLOGY)
    . CONVECTION CLOUDS
    . CUMULUS/CUMULUS CLOUDS
  ARC CLOUDS
  RT METEOROLOGY
    OBSERVATION AIRCRAFT
    SATELLITE OBSERVATION

ARIES SOUNDING ROCKET
  GS ROCKET VEHICLES
    . SOUNDED ROCKETS
    . . ARIES SOUNDING ROCKET

• ASTRONOMICAL SATELLITES
  GS OBSERVATORIES
    . ASTRONOMICAL OBSERVATORIES
    . . ASTRONOMICAL SATELLITES
    . . . HEAD
    . . . . HEAD 1
    . . . . . HEAD 2
    . . . . . . HEAD 3
    . . . . . . . OAO
    . . . . . . . . OAO 1
    . . . . . . . . . OAO 2
    . . . . . . . . . . OAO 3
    . . . . . . . . . . . OSO
    . . . . . . . . . . . . OSO
    . . . . . . . . . . . . . OSO-1
    . . . . . . . . . . . . . . OSO-2
    . . . . . . . . . . . . . . . OSO-3
    . . . . . . . . . . . . . . . . OSO-4
    . . . . . . . . . . . . . . . . . OSO-5
    . . . . . . . . . . . . . . . . . . OSO-6
    . . . . . . . . . . . . . . . . . . . OSO-7
    . . . . . . . . . . . . . . . . . . . . OSO-8
    . . . . . . . . . . . . . . . . . . . . . SATELLITES

• New Term
• CATAclySMIC VARIABLES

GS CEeleSTIAL BODIES
  - STARS
    - BINARY STARS
    - CATAclySMIC VARIABLES
    - VARIABLE STARS
    - CATAclySMIC VARIABLES
RT DRAWF STARS
  ECLIPsING BINARY STARS
  FLARE STARS
  HOT STARS
  NOVA
  PERIODIC VARIATIONS
  SOLAR OSCILLATIONS
  STELLAR FLARES
  STELLAR MASS EJECTION
  STELLAR OSCILLATIONS
  WHITE DWARF STARS

• CIRCULAR WAVEGUIDES

GS TRANSMISSION LINES
  - COMMUNICATION CABLES
  - WAVEGUIDES
  - CIRCULAR WAVEGUIDES
RT MICROWAVE TRANSMISSION
  PROPAGATION MODES

CIRCULATION DISTRIBUTION
RT ATMOSPHERIC CIRCULATION
  - DISTRIBUTION
  - VELOCITY DISTRIBUTION

CLUSTER ANALYSIS
RT CLASSIFICATIONS
  - IMAGE ANALYSIS
  - IMAGE PROCESSING
  - PATTERN RECOGNITION
  - REMOTE SENSING

COMMAND LANGUAGES
GS LANGUAGES
  - COMMAND LANGUAGES
  - QUERY LANGUAGES
RT INFORMATION RETRIEVAL

• COMMERCIAL SPACECRAFT

GS COMMERCIAL SPACECRAFT
  - RCA SATCOM SATELLITES
RT AEROSPACE INDUSTRY
  AEROSPACE VEHICLES
  COMMERCIAL
  COMMUNICATION SATELLITES
  INDUSTRIES
  SPACE COMMERCIALIZATION
  SPACE INDUSTRIALIZATION
  SPACE MANUFACTURING
  SPACE PROCESSING

• COMMONALITY

GS STANDARDIZATION
  - COMMONALITY
RT AIRCRAFT EQUIPMENT
  COST REDUCTION
  EFFICIENCY
  EQUIPMENT SPECIFICATIONS
  GROUND SUPPORT SYSTEMS
  SPACECRAFT COMPONENTS
  SPECIFICATIONS

COMPULSATORS
RT AC GENERATORS
  COMPENSATORS
  ELECTRIC POWER SUPPLIES
  PULSE GENERATORS

COMPUTATIONAL CHEMISTRY
GS ANALYSIS (MATHEMATICS)
  - NUMERICAL ANALYSIS
  - COMPUTATIONAL CHEMISTRY
RT CHEMISTRY
  COMPUTER TECHNIQUES
  COMPUTERIZED SIMULATION
  PHYSICAL CHEMISTRY
  TESTS

COMPUTATIONAL GRIDS
UF GRIDS (MATHEMATICS)
  MESH (MATHEMATICS)
RT COORDINATES
  MATHEMATICAL MODELS
  NUMERICAL ANALYSIS
  PROBLEM SOLVING

COMPUTER AIDED DESIGN
UF CAD (DESIGN)
  COMPUTERIZED DESIGN
GS COMPUTER AIDED DESIGN
  - IPAD
RT AIRCRAFT DESIGN
  AMPLIFIER DESIGN
  COMPUTER GRAPHICS
  COMPUTER TECHNIQUES
  COMPUTERIZED SIMULATION
  DESIGN
  DRAFTING MACHINES
  ENGINE DESIGN
  HELICOPTER DESIGN
  LENS DESIGN
  LOFTING
  LOGIC DESIGN
  MISSILE DESIGN
  REACTOR DESIGN
  ROBOTICS
  SATELLITE DESIGN
  SPACECRAFT DESIGN
  STRUCTURAL DESIGN

COMPUTER AIDED MANUFACTURING
UF CAM (MANUFACTURING)
GS MANUFACTURING

CONTROLLED SYSTEMS DESIGN
COMPUTER AIDED MANUFACTURING
RT COMPUTER GRAPHICS
  COMPUTER TECHNIQUES
  COMPUTERIZED SIMULATION
  ROBOTICS

COMPUTER AIDED MAPPING
GS MAPPING
RT COMPUTER GRAPHICS
  COMPUTER TECHNIQUES
  COMPUTERIZED SIMULATION
  MAPS
  ROBOTICS

• COMPUTERIZED DESIGN

USE COMPUTER AIDED DESIGN

• CONCURRENT PROCESSING

GS DATA PROCESSING
  - CONCURRENT PROCESSING
RT ARCHITECTURE (COMPUTERS)
  COMPUTER SYSTEMS DESIGN
  MULTIPROCESSING (COMPUTERS)
  PARALLEL PROCESSING (COMPUTERS)

CONDENSATION NUCLEI
GS CONDENSATION NUCLEI
  - AITKEN NUCLEI
RT AEROSOLS
  CLOUD PHYSICS
  CLOUDS (METEOROLOGY)
  CONDENSATION
  CONDENSING
  DROPS (LIQUIDS)
  ICE NUCLEI
  METEOROLOGY
  MICROPARTICLES
  NUCLEATION
  RAIN

CONDENSERS (LIQUEFIERS)
UF CONDENSER RADIATORS
GS CONDENSERS (LIQUEFIERS)
RT JET CONDENSERS
  ABSORBERS (EQUIPMENT)
  AIR CONDITIONING
  COLD TRAPS
  COLUMNS (PROCESS ENGINEERING)
  COMPRESSORS
  CONDENSATES
  CONDENSERS
  CONDENSING
  COOLING FINS
  COOLING SYSTEMS
  DISTILLATION EQUIPMENT
  DRYING APPARATUS
  EVAPORATORS
  EXHAUST SYSTEMS
  FILM CONDENSATION
  HEAT EXCHANGERS
  HEAT PUMPS
  LIQUEFIED GASES
  REFRIGERATING MACHINERY
  SEPARATORS
  SPACECRAFT RADIATORS
  VAPORIZERS

CONJUGATE GRADIENT METHOD
GS ANALYSIS (MATHEMATICS)
  - NUMERICAL ANALYSIS
  - ITERATION
  - CONJUGATE GRADIENT METHOD
RT ALGORITHMS
  CONJUGATES
  GRADIENTS
  ITERATIVE SOLUTION

• CONTINENTAL MARGINS

USE CONTINENTAL SHELVES

• CONTINUUM MODELING

RT CONTINUUM MECHANICS
  CONTINUUMS
  LARGE SPACE STRUCTURES
  MATHEMATICAL MODELS
  STRUCTURAL ANALYSIS

• CONTROLLED SYSTEMS DESIGN

GS SYSTEMS ENGINEERING
COLDANT LOSS

COOLANT LOSS
Use LOSS OF COOLANT

Cyclic AMP

Cyclical AMP
Use CYCLIC AMP

Cyclodepsipeptide

Cyclodepsipeptide
Use CYCLIC AMP

Cyclokapton

Cyclokapton
Use CYCLIC AMP

Cyclokapton
Use CYCLIC AMP

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NASA THESAURUS SUPPLEMENT (PART 1)

DMSP SATELLITES-(CONT.)
REMOTE SENSING
SATELLITE-BORNE PHOTOGRAPHY

DOUBLE STARS
USE BINARY STARS

• ELECTRIC AIRCRAFT

• EARTHNET
RT EARTH OBSERVATIONS (FROM SPACE)
EARTH RESOURCES
ESA SATELLITES
EUROPEAN SPACE PROGRAMS
LANDSAT SATELLITES
REMOTE SENSORS
SYNTHETIC APERTURE RADAR

EASTERN HEMISPHERE
RT EARTH (PLANET)
GEOGRAPHY
WESTERN HEMISPHERE

EINSTEIN OBSERVATORY
USE HEAD 2

• ELECTRIC AIRCRAFT
USE FLY BY WIRE CONTROL

ELECTRIC FURNACES
GS HEATING EQUIPMENT
. . . FURNACES
. . . ELECTRIC FURNACES
RT MATERIALS
SPACE PROCESSING

• ELECTROCHROMISM
RT COLOR
DISPLAY DEVICES
. . . ELECTRO-OPTICS
. . . ELECTROCHEMISTRY
THIN FILMS

• ELECTRODE MATERIALS
RT ANODS
ANODES
. . . ANODIC COATINGS
CATHODES
CATHODIC COATINGS
CELL ANODES
CELL CATHODES
. . . ELECTRODES
PHOTOCATHODES
PHOTOLELECTRIC CELLS
PHOTOLELECTRIC MATERIALS
PHOTOLELECTROCHEMICAL DEVICES
TUBE ANODES

EMBEDDED COMPUTER SYSTEMS
GS DATA PROCESSING EQUIPMENT
. . . COMPUTERS
. . . EMBEDDED COMPUTER SYSTEMS
. . . AIRBORNE/SPACEBORNE COMPUTERS
RT ADA (PROGRAMMING LANGUAGE)

EMPSNAGGE
USE TAIL ASSEMBLIES

ENCKE COMET
GS CELESTIAL BODIES
. . . COMETS
. . . ENCKE COMET

ENERGY EFFICIENCY TRANSPORT PROGRAM
USE ACEE PROGRAM

EUROPEAN SATELLITE (ESA)
UF EUROPEAN RETRIEVABLE CARRIER
GS SPACE PLATFORMS
. . . EUROCOSM (ESA)
RT SPACE SHUTTLES

EUROPEAN LARGE TELECOMM SATELLITE
USE L-SAT

EUROPEAN RETRIEVABLE CARRIER
USE EUROCOSM (ESA)

EXERCISE
USE PHYSICAL EXERCISE

EXPERIMENT DESIGN
SN (DESIGN OF EXPERIMENTS EXCLUDES PROTOTYPES)
UF DESIGN OF EXPERIMENTS
GS EXPERIMENT DESIGN
. . . FACTORIAL DESIGN
RT COVARIANCE
DEGREES OF FREEDOM
. . . DESIGN
. . . FACTOR ANALYSIS
LABORATORIES
MATHEMATICAL MODELS
OPERATIONS RESEARCH
ORTHOGONALITY
QUALITY CONTROL
REGRESSION ANALYSIS
STATISTICAL ANALYSIS
SYSTEMS ENGINEERING
VARIANCE (STATISTICS)

EXPERT SYSTEMS GS KNOWLEDGE
. . . ARTIFICIAL INTELLIGENCE
. . . EXPERT SYSTEMS
RT COMPUTER PROGRAMMING
. . . LOGIC
. . . PROGRAMMING

EXPLORER 44 SATELLITE
UF SORLAD 10 SATELLITE
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . EXPLORER 44 SATELLITE

EXPLORER 46 SATELLITE
UF METEOROLOGICAL TECHNOLOGY SATELLITE
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . EXPLORER 46 SATELLITE

F

FAR UV SPECTROSCOPIC EXPLORER
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . FAR UV SPECTROSCOPIC EXPLORER

FASTAING
RT AEROSPACE MEDICINE
DIETS
FOOD INTAKE
HYPOXIA
FAUNA
USE ANIMALS

FEATURE EXTRACTION
USE PATTERN RECOGNITION

FEATURE IDENTIFICATION AND LOCATION
EXPER RT EARTH OBSERVATIONS (FROM SPACE)
IMAGE PROCESSING
PATTERN RECOGNITION
REMOTE SENSING
REMOTE SENSORS
SCENE ANALYSIS
SPACE SHUTTLE PAYLOADS

FIRE RETARDANTS
USE FLAME RETARDANTS

FIRMWARE
RT COMPUTER PROGRAMMING
HARDWARE
MICROPROCESSORS
MICROPROGRAMMING

FISCHER-TROPSCH PROCESS
RT CATALYSIS
CATALYTIC ACTIVITY
REACTION KINETICS
SYNTHESIS (CHEMISTRY)
SYNTHETIC FUELS

FLAPERONS
GS AIRFOILS
. . . AILERONS
. . . FLAPERONS
. . . FLAPS (CONTROL SURFACES)
. . . FLADERONS
. . . FLAPS (CONTROL SURFACES)
. . . FLAPERONS
RT AERODYNAMIC BRAKES

FLAVOR (PARTICLE PHYSICS)
GS THEORETICAL PHYSICS
. . . FLAVOR (PARTICLE PHYSICS)
RT HADRONS
PARTICLE INTERACTIONS
PARTICLE THEORY
QUANTUM THEORY
QUARKS

• FLIGHT MANAGEMENT SYSTEMS
GS MANAGEMENT SYSTEMS
. . . FLIGHT MANAGEMENT SYSTEMS
RT AIR NAVIGATION
AIR TRAFFIC CONTROL
AIRBORNE/SPACEBORNE COMPUTERS
AUTOMATIC FLIGHT CONTROL
AUTOMATIC LANDING CONTROL
AVIONICS
COMPUTER TECHNIQUES
FLIGHT CONTROL
GROUND BASED CONTROL
NAVIGATION AIDS
ONBOARD DATA PROCESSING
SYSTEMS ENGINEERING

• FLOAT ZONES
RT CRYSTAL GROWTH
MELTS (CRYSTAL GROWTH)
SILICON
SOLAR CELLS
SPACE PROCESSING
ZONE MELTING

FLUID MANAGEMENT
RT CRYOGENIC FLUID STORAGE
CRYOGENIC FLUIDS
CRYOGENIC ROCKET PROPELLANTS
FLUID DYNAMICS
FUEL CONTROL
REDUCED GRAVITY

FLUID-SOLID INTERACTIONS
RT GAS-SOLID INTERFACE
LIQUID-SOLID INTERFACES
SURFACE REACTIONS

• FORMYL IONS
GS IONS
. . . FORMYL IONS
. . . RADICALS
. . . FORMYL IONS

• New Term

5
NASA THESAURUS SUPPLEMENT (PART 1)

- **IMAGING RADAR**
  - GS RADAR
  - RT RADAR IMAGERY
  - REMOTE SENSORS
  - SIDE-LookING RADAR
  - SYNTHETIC APERTURE RADAR

- **INDOOR AIR POLLUTION**
  - GS POLLUTION
  - ENVIRONMENT POLLUTION
  - AIR POLLUTION
  - INDOOR AIR POLLUTION
  - RT AIR QUALITY
  - AIR SAMPLING
  - BUILDINGS

- **INFORMATION TRANSFER**
  - RT INFORMATION DISSEMINATION
  - INFORMATION FLOW
  - INFORMATION MANAGEMENT
  - INFORMATION RETRIEVAL
  - INFORMATION SYSTEMS
  - INTERNATIONAL COOPERATION
  - TECHNOLOGY TRANSFER
  - TECHNOLOGY UTILIZATION

- **INFRARED SIGNATURES**
  - GS SIGNATURES
  - INFRARED SIGNATURES
  - RT INFRARED DETECTORS
  - INFRARED SPECTRA
  - SIGNATURE ANALYSIS

- **INSAT SATELLITES**
  - USE INDIAN SPACECRAFT

- **INTEGRAL ROCKET RAMJETS**
  - GS ENGINES
  - AIR BREATHING ENGINES
  - GAS TURBINE ENGINES
  - JET ENGINES
  - RAMET ENGINES
  - INTEGRAL ROCKET RAMJETS
  - INTERNAL COMBUSTION ENGINES
  - GAS TURBINE ENGINES
  - JET ENGINES
  - RAMET ENGINES
  - INTEGRAL ROCKET RAMJETS
  - RT JUPITER (PLANET)
  - JUPITER RINGS
  - SOLAR SYSTEM

- **INTEGRALS**
  - RT DIFFERENTIAL EQUATIONS
  - FUNCTIONALS
  - INTEGRAL CALCULUS
  - MATHEMATICS

- **INTEGRATED LIBRARY SYSTEMS**
  - GS INFORMATION SYSTEMS
  - INTEGRATED LIBRARY SYSTEMS
  - RT INFORMATION DISSEMINATION
  - INFORMATION MANAGEMENT
  - INFORMATION RETRIEVAL
  - LIBRARIES
  - ON-LINE SYSTEMS

- **INTERACTIONAL AERODYNAMICS**
  - GS FLUID MECHANICS
  - FLOW
  - FLUID DYNAMICS
  - GAS DYNAMICS
  - INTERACTIONAL AERODYNAMICS
  - AIRFOILS
  - COMPUTATIONAL FLUID DYNAMICS
  - FLOW
  - LAMINAR BOUNDARY LAYER

- **INTERDIGITAL TRANSUCERS**
  - GS TRANSUCERS
  - DIGITAL TRANSUCERS
  - ELECTROACOUSTIC TRANSUCERS
  - ELECTRIC TRANSUCERS
  - ELECTROACOUSTIC TRANSUCERS
  - SURFACE ACOUSTIC WAVE DEVICES

- **INTERPERSONAL RELATIONS**
  - USE HUMAN RELATIONS

- **ION SPECTROMETERS**
  - USE MASS SPECTROMETERS

- **IONOPAUSE**
  - SN (EXCLUDES PLASMAPAUSE)
  - RT COMETARY ATMOSPHERES
  - PLASMAPAUSE
  - SPACE PLASMAS
  - VENUS ATMOSPHERE

- **IRAS-ARAKI-ALCOCK COMET**
  - GS CELESTIAL BODIES
  - COMETS
  - IRAS-ARAKI-ALCOCK COMET
  - RT INFRARED ASTRONOMY SATELLITE
  - SOLAR SYSTEM

- **IRS (INDIAN SPACECRAFT)**
  - USE INDIAN SPACECRAFT

- **JUPITER SATELLITES**
  - GS CELESTIAL BODIES
  - NATURAL SATELLITES
  - JUPITER SATELLITES
  - GALILEAN SATELLITES
  - CALLISTO
  - EUROPA
  - GANYMEDE
  - IO
  - RT JUPITER (PLANET)
  - JUPITER RINGS
  - SOLAR SYSTEM

- **K-MESONS**
  - USE KAONS

- **KAMPU CHEA**
  - USE CAMBODIA
  - NATIONS
  - KAMPU CHEA
  - RT ASIA

- **LANDSAT 4**
  - USE EARTH RESOURCES TECHNOLOGY SATELLITE D
  - ERTS-D
  - GS SATELLITES
  - ARTIFICIAL SATELLITES

- **LANDSAT 5**
  - GS SATELLITES
  - ARTIFICIAL SATELLITES
  - RT INFRARED ASTRONOMY SATELLITE
  - LANDSAT 4
  - LANDSAT 5
  - LANDSAT 4
  - LANDSAT 5
  - LANDSAT 4
  - LANDSAT 5
  - LANDSAT 4
  - LANDSAT 5
  - LANDSAT 4

- **LARGE SPACE TELESCOPE**
  - USE HUBBLE SPACE TELESCOPE

- **LEVITATION MELTING**
  - GS PHASE TRANSFORMATIONS
  - RT ELECTRIC CURRENT
  - EXTERNAL SURFACE CURRENTS
  - LEVITATION
  - LIQUID METALS
  - LOW GRAVITY MANUFACTURING
  - MAGNETIC SUSPENSION
  - METALLURGY
  - OHMIC DISSIPATION
  - RESISTANCE HEATING
  - SPACE MANUFACTURING
  - SPACE PROCESSING

- **LIGHT VALVES**
  - RT ELECTRO-OPTICS
  - LIGHT MODULATION
  - LIQUID CRYSTALS
  - OPTICAL DATA PROCESSING

- **LIQUID PLUS SOLID ZONES**
  - USE MUSHY ZONES

- **LOCAL GROUP (ASTRONOMY)**
  - GS CELESTIAL BODIES
  - GALAXIES
  - GALACTIC CLUSTERS
  - LOCAL GROUP (ASTRONOMY)
  - ANDROMEDA GALAXIES
  - RT BARRIED GALAXIES
  - COSMOLOGY
  - DISK GALAXIES
  - DWARF GALAXIES
  - ELLIPTICAL GALAXIES
  - SPIRAL GALAXIES
  - VIRGO GALACTIC CLUSTER

- **LOGIC PROGRAMMING**
  - GS SOFTWARE ENGINEERING
  - COMPUTER PROGRAMMING
  - LOCAL GROUP (ASTRONOMY)
  - RT ARTIFICIAL INTELLIGENCE
  - EXPERT SYSTEMS
  - LOGIC DESIGN

- **LOSS OF COOLANT**
  - USE COOLANT LOSS
  - GS ACCIDENTS
  - LOSS OF COOLANT
  - RT COOLANTS
  - LEAKAGE
  - LOSSES
  - NUCLEAR REACTORS
  - REACTOR MATERIALS

- **LOW INTENSITY X RAY IMAGING SCOPE**
  - USE LINOSCOPES

- **LOW REYNOLDS NUMBER**
  - SN (RN BELOW 2.000)
  - RT HIGH REYNOLDS NUMBER
  - REYNOLDS NUMBER

- **LUNAR ATMOSPHERE**
  - USE LUNAR ATMOSPHERE
  - GS ENVIRONMENTS
  - EXTRATERRESTRIAL ENVIRONMENTS
  - LUNAR ENVIRONMENT
  - LUNAR ATMOSPHERE
  - SATELLITE ATMOSPHERE
  - LUNAR ATMOSPHERE

- **LUNAR SATELLITES**
  - USE INDIAN SPACECRAFT

- **NEW TERM**
NUCLEAR MEDICINE-(CONT.)
- RADIOBIOLOGY
- ANTIRADIATION DRUGS
- HEALTH PHYSICS
- RADIOPATHOLOGY

NUCLEAR WASTES
- USE RADIOACTIVE WASTES

NUMERICAL DATA BASES
- GS INFORMATION SYSTEMS
- . NUMERICAL DATA BASES
- RT INFORMATION RETRIEVAL
- ON-LINE SYSTEMS

OPEN PROJECT
- UF ORIGIN OF PLASMAS IN EARTH NEIGHBORHOOD
- RT EARTH ATMOSPHERE
- MAGNETOSPHERE
- PLASMA DIAGNOSTICS
- PLASMA PHYSICS
- PLASMA ATMOSPHERES
- SATELLITE-BORNE INSTRUMENTS
- SPACE PLASMAS

OPIHIU CLOUDS
- RT CLOUD PHYSICS
- INTERSTELLAR GAS
- INTERSTELLAR MATTER
- NEBULAE

OPTICAL BISTABILITY
- GS ELECTROMAGNETIC PROPERTIES
- . OPTICAL PROPERTIES
- . OPTICAL BISTABILITY
- RT HYSTERESIS
- INTEGRATED OPTICS
- LIGHT TRANSMISSION
- NONLINEAR OPTICS
- OPTICAL DATA STORAGE MATERIALS
- OPTICAL EQUIPMENT
- OPTICAL MEASURING INSTRUMENTS
- OPTICAL MEMORY (DATA STORAGE)
- OPTICAL WAVES
- GUIDES
- SWITCHING CIRCUITS

OPTICAL COMPUTERS
- GS DATA PROCESSING EQUIPMENT
- . COMPUTERS
- . OPTICAL COMPUTERS
- RT COHERENT LIGHT
- COMPUTING DESIGN
- ELECTRO-OPTICS
- OPTICAL EQUIPMENT
- OPTICAL MEMORY (DATA STORAGE)

OPTICAL DISKS
- GS PERIPHERAL EQUIPMENT (COMPUTERS)
- . COMPUTER STORAGE DEVICES
- . OPTICAL DISKS
- RT DATA STORAGE
- LASER APPLICATIONS
- OPTICAL DATA PROCESSING
- OPTICAL EQUIPMENT
- OPTICAL MEMORY (DATA STORAGE)
- VIDEO DISKS

ORATORY
- USE PUBLIC SPEAKING

ORBITAL MANEUVERING VEHICLES
- RT ORBIT TRANSFER VEHICLES
- ORBITAL SERVICING
- POWER MODULES (STS)
- REMOTELY PILOTED VEHICLES
- SPACECRAFT

ORIGINS OF PLASMAS IN EARTH NEIGHBORHOOD
- USE OPEN PROJECT

OSCILLATOR STRENGTHS
- RT ABSORPTION SPECTRA
- ABSORPTION
- ELECTRON OSCILLATIONS
- ELECTRON TRANSITIONS
- LINE SPECTRA

POWER FACTOR CONTROLLERS
- OSCILLATORS
- SPECTRAL LINE WIDTH

POLAR CUSPS
- RT AERONOMY
- GEOMAGNETIC BODY
- GEOMAGNETISM
- GEOPHYSICS
- INTERPLANETARY SPACE
- LINE OF FORCE
- MAGNETIC FIELD CONFIGURATIONS
- MAGNETIC FIELDS
- MAGNETOPAUSE
- MAGNETOSPHERE
- PLANETARY MAGNETIC FIELDS
- POLAR REGIONS
- SPACE PLASMAS

POLARITONS
- GS POLARITONS
- . PLASMAGENS

POLYBROMINATED BIPHENYLS
- UF PBB
- GS TOXINS AND ANTITOXINS
- POLYBROMINATED BIPHENYLS
- RT FLAME RETARDANTS
- POLYCHLORINATED BIPHENYLS

POWER FACTOR CONTROLLERS
- GS CONTROLLERS
- . POWER FACTOR CONTROLLERS
- RT CURRENT REGULATORS
- ELECTRIC MOTORS
- ENERGY CONSERVATION
- ENERGY CONVERSION EFFICIENCY
- INDUCTION MOTORS
- POWER EFFICIENCY
- VOLTAGE REGULATORS
POWER LOSS

- POWER LOSS
  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)
  RT ENERGY DISSIPATION
  POWER EFFICIENCY

- PRE-MAIN SEQUENCE STARS
  GS CELESTIAL BODIES
  - STARS
  - PRE-MAIN SEQUENCE STARS
  - MAIN SEQUENCE STARS
  - MAIN SEQUENCE STARS
  - PRE-MAIN SEQUENCE STARS
  RT STELLAR EVOLUTION

- PREPROCESSING
  RT DATA PROCESSING
  DATA REDUCTION
  IMAGE PROCESSING

- PRINCIPAL COMPONENTS ANALYSIS
  RT IMAGE PROCESSING
  IMAGING TECHNIQUES
  KARHUNEN-LOEVE EXPANSION
  PATTERN RECOGNITION

- PROTOCOL (COMPUTERS)
  RT CHANNELS (DATA TRANSMISSION)
  COMMUNICATION NETWORKS
  COMPUTER NETWORKS
  DATA LINKS
  DATA PROCESSING
  DATA TRANSMISSION
  PACKET SWITCHING

- PSEUDOPOTENTIALS
  GS IMPURITIES
  - PSEUDOPOTENTIALS
  RT IMPURITIES
  MELTING
  SEMICONDUCTORS (MATERIALS)

- PUBLIC SPEAKING
  UF ORATORY
  RT LECTURES
  SPEECH

- PULSE REPETITION RATE
  GS RATES (PER TIME)
  - PULSE RATE
  - PULSE REPETITION RATE
  RT =FREQUENCY RESPONSE
  OPTICAL PUMPING
  PULSE DURATION
  PULSE GENERATORS
  PULSED LASERS

- R78-2 SATELLITE
  USE SCATHA SATELLITE

- RADARSAT (CONT.)
  RT CANADIAN SPACE PROGRAMS
  SYNTHETIC APERTURE RADAR

- RADIATION MEDICINE
  USE NUCLEAR MEDICINE

- RADIODIAGNOSIS
  GS BIOENGINEERING
  - BIOMETRICS
  - RADIOLOGY
  - RADIOGRAPHY
  RT CARDIOLOGY

- RAYLEIGH-BENARD CONVECTION
  GS CONVECTION
  - FREE CONVECTION
  - RAYLEIGH-BENARD CONVECTION
  - FLOW
  - CONVECTIVE FLOW
  - RAYLEIGH-BENARD CONVECTION
  - BENARD CELLS
  RT CONVECTION CURRENTS
  CONVECTIVE HEAT TRANSFER
  FORCED CONVECTION
  HOT SURFACES
  LAMINAR FLOW
  RAYLEIGH NUMBER
  THERMAL BOUNDARY LAYER

- REARWARD FACING STEPS
  USE BACKWARD FACING STEPS

- RECTANGULAR WAVEGUIDES
  GS TRANSMISSION LINES
  - COMMUNICATION CABLES
  - WAVEGUIDES
  - RECTANGULAR WAVEGUIDES
  RT BEAM WAVEGUIDES
  MICROWAVE FILTERS

- RED DWARF STARS
  GS CELESTIAL BODIES
  - STARS
  - DWARF STARS
  - RED DWARF STARS
  RT HOT STARS
  LATE STARS
  MAIN SEQUENCE STARS
  STELLAR LUMINOSITY
  STELLAR MAGNITUDE
  SUBDWARF STARS
  SUPERNOVA REMNANTS
  WHITE DWARF STARS

- REFLECTION NEBULAE
  GS CELESTIAL BODIES
  NEBULAE
  - REFLECTION NEBULAE
  RT COSMIC DUST
  INTERSTELLAR MATTER
  LIGHT SCATTERING

- REFRESTATION
  GS MANAGEMENT
  RESOURCES MANAGEMENT
  FOREST MANAGEMENT
  - REFRESTATION
  RT FORESTS
  TIMBER INVENTORY

- REVERSE SWITCHING RECTIFIERS
  GS RECTIFIERS
  - REVERSE SWITCHING RECTIFIERS
  CRystal RECTIFIERS
  MODULATORS
  SOLID STATE DEVICES

- ROBOTS
  RT ARTIFICIAL INTELLIGENCE
  AUTOMATICA THEORY
  AUTOMATIC CONTROL
  COMPUTER AIDED DESIGN
  COMPUTER AIDED MANUFACTURING
  COMPUTER AIDED MAPPING
  COMPUTER VISION
  MAN MACHINE SYSTEMS
  MANIPULATORS
  ROBOTS
  TELEOPERATORS
  VOICE CONTROL

- NASA THESAURUS SUPPLEMENT (PART 1)

  ROMANIA
  UF RUMANIA
  GS NATIONS
  - ROMANIA
  RT BLACK SEA
  CENTRAL EUROPE
  EUROPE

  ROSAT MISSION
  GS OBSERVATORIES
  - ASTRONOMICAL OBSERVATORIES
  - ROSAT MISSION
  RT ARTIFICIAL SATELLITES
  - ROSAT MISSION
  RT EARTH SATELLITES
  - ROSAT MISSION
  RT SPACEBORNE ASTRONOMY
  SPACEBORNE TELESCOPES
  X RAY SOURCES
  X RAY TELESCOPES

- ROTARY ENGINES
  GS ENGINES
  - INTERNAL COMBUSTION ENGINES
  - ROTARY ENGINES
  RT AIRCRAFT ENGINES
  AUTOMOBILE ENGINES
  PISTON ENGINES

- ROTOR BODY INTERACTIONS
  RT AERODYNAMIC CHARACTERISTICS
  AERODYNAMIC CONFIGURATIONS
  HELICOPTER DESIGN
  ROTOR AERODYNAMICS

- RUMANIA
  USE ROMANIA

- S
  SAND CASTING
  GS FORMING TECHNIQUES
  - CASTING
  - SAND CASTING
  RT MOLDING MATERIALS
  SANDS

- SATELLITE DOPPLER POSITIONING
  RT DOPPLER EFFECT
  DOPPLER NAVIGATION
  DOPPLER RADAR
  - GEODESY
  - GEOGRAPHIC ACCURACY
  - GEOGRAPHIC COORDINATES
  - GEOGRAPHIC SATELLITES
  - GEOGRAPHIC SURVEYS
  - POLISTATION DOPPLER TRACKING
  SYSTEM
  POSITIONING
  SATELLITE TRACKING
  TRACKING (POSITION)

- SATELLITE IMAGERY
  RT ATMOSPHERIC CORRECTION
  SPACEBORNE TELESCOPES
  - X RAY TELESCOPES

- SCANDINAVIA
  RT DENMARK
  - FINLAND
  - NORWAY
  SWEDEN

- SCARPS
  USE ESCARPMENTS
  SDV USE SHUTTLE DERIVED VEHICLES

- SEASAT 1
  GS SATELLITES
  - ARTIFICIAL SATELLITES
  - SEASAT SATELLITES
  SEASAT 1

- New Term
SEASAT 1 (CONT.)
- Earth Satellites
- Seasat Satellites
- Seasat 1

RT LANDSAT Satellites
NASA Remote Sensing
Oceanography Programs
Seasat-3 Satellite

SELECTIVE SURFACES
RT Solar Selective Coatings
RT Energy Absorption Films
Selectivity
Solar Collectors
Solar Energy Absorbers

SELF SHADOWING
RT Large Space Structures
Shadows
Solar Arrays

SEO (Indian Spacecraft)
Use Indian Spacecraft

SFAR
Use Sound Fixing and Ranging

SHELL ANODES
GS Electrodes
- Anodes
- Shell Anodes
RT Heat Measurement

SHIP TO SHORE COMMUNICATION
GS Telecommunication
- Communication
- Ship to Shore Communication
RT Data Transmission
Radio Communication Ships
Telemetry

SHORT CIRCUIT CURRENTS
GS Electric Current
Short Circuit Currents
RT Open Circuit Voltage
Photovoltaic Cells
Short Circuits
Solar Cells
VOLT-AmperE Characteristics

SHUTTLE DERIVED VEHICLES
UF SDV
GS ManneD Spacecraft
- Shuttle Derived Vehicles
- Space Shuttle Orbiters
Space Shuttles
Spacecraft
Spacecraft Design

SOFTWARE ENGINEERING
GS Software Engineering
- Computer Programming
- Assembler Routines
- Assembler Libraries
- Language Programming
- Logic Programming
- Microprogramming
- Multiprogramming
- On-Line Programming
- Parallel Programming
- Symbolic Programming
RT Computer Programs

SOFTWARE ENGINEERING (CONT.)
Computer Systems Design
Computer Systems Programs
Data Bases
Software Tools
Systems Engineering

SOFTWARE TOOLS
RT Architecture (Computers)
Computer Programming
Computer Programs
Computer Systems Design
Computer Systems Programs
Data Base Management Systems
Program Verification (Computers)
Software Engineering

SOLAR BACKSCATTER UV SPECTROMETER
GS Measuring Instruments
- Spectrometers
- Solar Backscatter UV Spectrometer
RT Irradiance
Satellite-Borne Instruments

SOLAR LASERS
Use Solar-Pumped Lasers

SOLAR OPTICAL TELESCOPE
UF SOT
GS Telescopes
- Spaceborne Telescopes
- Solar Optical Telescope
RT Astronomical Telescopes
Solar Instruments
Solar Physics

SOLAR PLANETARY INTERACTIONS
GS Solar Planetary Interactions
- Solar Terrestrial Interactions
RT Magnetic Disturbances
Magnetosphere
Planetary Atmospheres
Planetary Magnetic Fields
Plasma Interactions
Solar Activity
Solar Activity Effects
Solar Coronal Radiation
Solar Wind
Solar Wind Velocity

SOLAR RECEIVERS
Use Solar Collectors

SOLAR SELECTIVE COATINGS
Use Selective Surfaces

SOLAR THERMAL ELECTRIC POWER PLANTS
GS Electric Power Plants
- Solar Thermal Electric Power Plants
RT Power Plants
Solar Energy
Thermal Energy

SOLAR-PUMPED LASERS
UF Solar Lasers
GS Stimulated Emission Devices
- Lasers
- Solar-Pumped Lasers
RT Laser Pumping
Optical Pumping
Solar Energy Conversion
Solar Radiation

SOLRAD 10 SATELLITE
Use Explorer 44 Satellite

SONIC FATIGUE
Use Acoustic Fatigue

SOT
Use Solar Optical Telescope

SOFTWARE COMMERCIALIZATION
RT Aerospace Industry

SPACE COMMERCIALIZATION (CONT.)
Commercial Spacecraft
Communication Satellites
Microgravity Applications
Space Industrialization
Space Manufacturing
Space Processing
Spacecraft Launching
Technology Transfer

SPACE HABITATS
RT Aerospace Environments
Closed Ecological Systems
Life Support Systems
Space Colonies
Space Stations
Spacecraft

SPACE OPERATIONS CENTER (NASA)
GS Manned Spacecraft
- Space Stations
- Orbital Space Stations
- Space Operations Center (NASA)
RT Large Space Structures
Orbital Assembly
Orbital Servicing

SPACE SHUTTLE ORBITER 103
GS Transportation
- Space Transportation System
- Space Shuttle Orbiters
- Space Shuttle Orbiter 103
RT Manned Space Flight
Recoverable Spacecraft
Reusable Spacecraft
Spacecraft

SPACE SHUTTLE ORBITER 104
GS Transportation
- Space Transportation System
- Space Shuttle Orbiters
- Space Shuttle Orbiter 104
RT Manned Space Flight
Recoverable Spacecraft
Reusable Spacecraft
Spacecraft

SPACECRAFT EQUIPMENT
GS Onboard Equipment
- Spacecraft Equipment
- Spacecraft Electronic Equipment
RT Equipment
Spacecraft Instruments

SPACECRAFT MAINTENANCE
GS Maintenance
- Spacecraft Maintenance
RT Checkout
Prelaunch Tests
Space Vehicle Checkout Program
Spacecraft Reliability Turnaround (ST5)

SPECTRAL METHODS
RT Computational Fluid Dynamics
Differential Equations
Spectrum Analysis

SPECTROPHOTOMETERS
RT Energy Conversion Efficiency
Solar Cells
Solar Collectors

SPEECHES
Use Lectures

SPRING (SEASON)
GS Seasons
Spring (Season)
RT Autumn
Summer
Winter
ULTRALIGHT AIRCRAFT
RT AIRCRAFT
HANG GLIDERS
LIGHT AIRCRAFT
WINGED VEHICLES

UNIFIED FIELD THEORY
GS FIELD THEORY (PHYSICS)
RT UNIFIED FIELD THEORY
EINSTEIN EQUATIONS
ELECTROMAGNETIC FIELDS
ELECTROMAGNETIC INTERACTIONS
ELECTROMAGNETISM
GRAVITATION THEORY
GRAVITATIONAL FIELDS
PARTICLE THEORY
PLASMA PHYSICS
RELATIVITY
THEORETICAL PHYSICS

UNITED STATES (CONT.)
SOUTHERN CALIFORNIA
VIRGIN ISLANDS

US-2A AIRCRAFT
USE S-2 AIRCRAFT

VEGETATIVE INDEX
RT AGRISTARS PROJECT
ATMOSPHERIC ATTENUATION
ATMOSPHERIC EFFECTS
ATMOSPHERIC OPTICS
ATMOSPHERIC SCATTERING
COLOR CORRECTION
CROP IDENTIFICATION
CROP INVENTORIES
IMAGE ENHANCEMENT
IMAGE TECHNIQUES
MULTISPECTRAL BAND SCANNERS
RADIOMETRIC CORRECTION
REFLECTANCE
REMOTE SENSING
SATELLITE IMAGERY
SATELLITE OBSERVATION
SPECTRAL REFLECTANCE
VEGETATION GROWTH

VERTICAL ATTITUDE TAKEOFF-LANDING
AIRCRAFT
USE VATOL AIRCRAFT

VERY LARGE SCALE INTEGRATION
UF VLSI
GS CIRCUITS
INTEGRATED CIRCUITS
VERY LARGE SCALE INTEGRATION
ARCHITECTURE (COMPUTERS)
CHIPS (ELECTRONICS)
LARGE SCALE INTEGRATION

VIRTUAL MEMORY SYSTEMS
RT COMPUTER SYSTEMS DESIGN
DATA MANAGEMENT
DATA STORAGE
MAGNETIC STORAGE

VERY LARGE SCALE INTEGRATION
USE VLSI

VOLTAGE CONTROLLED OSCILLATORS
UF VCO
GS OSCILLATORS
VOLTAGE CONTROLLED OSCILLATORS
CIRCUITS
ELECTRIC CONTROL
ELECTRIC NETWORKS
FREQUENCY MODULATION
FREQUENCY STABILITY
MICROWAVE OSCILLATORS
VOLTAGE REGULATORS

WASTE HEAT (CONT.)
HEAT PUMPS
WASTE ENERGY UTILIZATION

WESTERN HEMISPHERE
RT EARTH (PLANET)
EASTERN HEMISPHERE
GEOGRAPHY

WHIRL TOWERS
RT HELICOPTER DESIGN
HOVERING
HOVERING STABILITY
PARACHUTES
ROTARY WINGS
ROTOR AERODYNAMICS
SPIN TESTS

WOLFRAM
USE TUNGSTEN

XENON CHLORIDE LASERS
GS STIMULATED EMISSION DEVICES
LASERS
GAS LASERS
RARE GAS-HALIDE LASERS
XENON CHLORIDE LASERS

X RAY TIMING EXPLORER
GS SATELLITES
ARTIFICIAL SATELLITES
EXPLORER SATELLITES
X RAY TIMING EXPLORER
EARTH SATELLITES
EXPLORER SATELLITES
X RAY TIMING EXPLORER

XENON CHLORIDE LASERS
GS STIMULATED EMISSION DEVICES
LASERS
GAS LASERS
RARE GAS-HALIDE LASERS
XENON CHLORIDE LASERS

VIDEO SIGNALS
RT SIGNAL PROCESSING
SIGNAL TRANSMISSION
SIGNALS
VIDEO COMMUNICATION
VIDEO DATA

VIRTUAL MEMORY SYSTEMS
RT COMPUTER SYSTEMS DESIGN
DATA MANAGEMENT
DATA STORAGE
MAGNETIC STORAGE

VLSI
USE VLSI

WASTE HEAT
RT ENERGY TECHNOLOGY
HEAT EXCHANGERS
### NASA Thesaurus Supplement

#### Part 2

**Access Vocabulary**

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<th>Aircraft, Highly Maneuverable</th>
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<td>Aircraft</td>
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<td>Access, Demand Assignment Multiple</td>
<td>Aircraft, Ultra-light</td>
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<td>Accuracy, Geometric</td>
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PHOTOGRAPHY, HIGH SPEED
USE HIGH-SPEED PHOTOGRAPHY

PHYSICS
USE PHYSICS

PHYSIOLOGY, GRAVITATIONAL
USE GRAVITATIONAL PHYSIOLOGY

PIONEER 12 SPACE PROBE
USE PIONEER VENUS SPACECRAFT

PLANETARY INTERACTIONS, SOLAR
USE SOLAR PLANETARY INTERACTIONS

PLANTS, SOLAR THERMAL ELECTRIC POWER
USE SOLAR THERMAL ELECTRIC POWER PLANTS

PLASMA ANTENNAS

PLASMA BUBBLES

PLASMAS IN EARTH NEIGHBORHOOD, ORIGIN OF
USE OPEN PROJECT

(PLASMAS), TEARING MODES
USE TEARING MODES (PLASMAS)

PLUS SOLID ZONES, LIQUID
USE MUSHY ZONES

POLAR CUSPS

POLARIMETRY

POLUTION, INDOOR AIR
USE INDOOR AIR POLLUTION

POLYBROMINATED BIPHENYLS

POSITIONING, SATELLITE DOPPLER
USE SATELLITE DOPPLER POSITIONING

POWER FACTOR CONTROLLERS

POWER LOSS

POWER PLANTS, SOLAR THERMAL ELECTRIC
USE SOLAR THERMAL ELECTRIC POWER PLANTS

POWER SUPPLIES, AIRCRAFT
USE AIRCRAFT POWER SUPPLIES

PR
USE PUERTO RICO

PRE-MAIN SEQUENCE STARS

PRECISION, VORTEX
USE VORTEX PRECISION

PREPROCESSING

PRINCE EDWARD ISLAND

PRINCIPAL COMPONENTS ANALYSIS

PROBE B, GRAVITY
USE GRAVITY PROBE B

PROBE, PIONEER 12 SPACE
USE PIONEER VENUS SPACECRAFT
Problem, Dining Philosophers
USE DINING PHILOSOPHERS PROBLEM

Process, Fischler-Tropsch
USE FISCHLER-TROPSCH PROCESS

Processing, Concurrent
USE CONCURRENT PROCESSING

Processing, Distributed
USE DISTRIBUTED PROCESSING

Processing, Frames (Data)
USE FRAMES (DATA PROCESSING)

Program, ACEE
USE ACEE PROGRAM

Program, Aircraft Energy Efficiency
USE ACEE PROGRAM

Program, Brazilian Space
USE BRAZILIAN SPACE PROGRAM

Program, DAST
USE DAST PROGRAM

Program, Defense Meteorological Satellite
USE DMSP SATELLITES

Program, Energy Efficiency Transport
USE ACEE PROGRAM

Program (Programming Language), Ada
USE ADA (PROGRAMMING LANGUAGE)

Program (Programming Language), APL
USE APL (PROGRAMMING LANGUAGE)

Programming, Logic
USE LOGIC PROGRAMMING

Project, Open
USE OPEN PROJECT

Properties, Asymptotic
USE ASYMPTOTIC PROPERTIES

PROTOCOL (COMPUTERS)

PSEUDOPOTENTIALS

PUBLIC SPEAKING

PULSE REPETITION RATE

Pumped Lasers, Solar-
USE SOLAR-PUMPED LASERS

P78-2 Satellite
USE SCATHA SATELLITE

QUANTUM ELECTRONICS

QUERY LANGUAGES

R

Radar, Imaging
USE IMAGING RADAR

Radar, Imaging
USE SYNTHETIC APERTURE RADAR

RADARSAT

Radiation Medicine
USE NUCLEAR MEDICINE

RADIOCARDIOGRAPHY

Ramjets, Integral Rocket
USE INTEGRAL ROCKET RAMJETS

Ranging, Sound Fixing And
USE SOUND FIXING AND RANGING

Rate, Bit Error
USE BIT ERROR RATE

Rate, Pulse Repetition
USE PULSE REPETITION RATE

Ratio, Temperature
USE TEMPERATURE RATIO

Rating, Band
USE BAND RATIONG

Ray Imaging Scope, Low Intensity X
USE LIXISCOPES

Ray Timing Explorer, X
USE X RAY TIMING EXPLORER

RAYLEIGH-BENARD CONVECTION

Rays, Galactic Cosmic
USE GALACTIC COSMIC RAYS

Rearward Facing Steps
USE BACKWARD FACING STEPS

Receivers, Solar
USE SOLAR COLLECTORS

RECTANGULAR WAVEGUIDES

Rectifiers, Reverse Switching
USE REVERSE SWITCHING RECTIFIERS

RED DWARF STARS

REFLECTION NEBULAE

REFORESTATION

Region, Caribbean
USE CARIBBEAN REGION

Relations, Human
USE HUMAN RELATIONS

Relations, Interpersonal
USE HUMAN RELATIONS

Repetition Rate, Pulse
USE PULSE REPETITION RATE

Research Wings, Aeronautical
USE AERONAUTICAL RESEARCH WINGS

Resonance, Baryon
USE BARYON RESONANCE

Resonance, Meson
USE MESON RESONANCE

Retardants, Fire
USE FLAME RETARDANTS

Retrievable Carrier, European
USE EUROCA (ESA)

REVERSE SWITCHING RECTIFIERS

Reynolds Number, High
USE HIGH REYNOLDS NUMBER

Reynolds Number, Low
USE LOW REYNOLDS NUMBER

ROBOTICS

Rocket, Ariane Sounding
USE ARIANE SOUNDING ROCKET

Rocket Ramjets, Integral
USE INTEGRAL ROCKET RAMJETS

ROMANIA

ROSAT MISSION

ROTARY ENGINES

Scope, Low Intensity X Ray Imaging
USE LIXISCOPES

Rotation, Carrington
USE SOLAR ROTATION

ROTATOR BODY INTERACTIONS

Romania
USE ROMANIA

S

SAND CASTING

Sat, L-
USE L-SAT

Satellite, Cosmos 954
USE COSMOS 954 SATELLITE

SATELLITE DOPPLER POSITIONING

Satellite, European Large Telecomm
USE L-SAT

Satellite, Explorer 44
USE EXPLORER 44 SATELLITE

Satellite, Explorer 46
USE EXPLORER 46 SATELLITE

Satellite, Hipparcos
USE HIPPARCOS SATELLITE

SATELLITE IMAGERY

Satellite, Magsat B
USE MAGSAT B SATELLITE

Satellite, Meteoroid Technology
USE EXPLORER 46 SATELLITE

Satellite, NOAA 8
USE NOAA 8 SATELLITE

Satellite Program, Defense Meteorological
USE DMSP SATELLITES

Satellite, FTB-2
USE SCATHA SATELLITE

Satellite, Solar 10
USE EXPLORER 44 SATELLITE

Satellites, Ariik
USE ANIK SATELLITES

Satellites, Astronomical
USE ASTRONOMICAL SATELLITES

Satellites, Dmap
USE DMSP SATELLITES

Satellites, INSAT
USE INDIAN SPACECRAFT

Satellites, Jupiter
USE JUPITER SATELLITES

Satellites, Marecs Maritime
USE MARECS MARITIME SATELLITES

Satellites, Nova
USE NOVA SATELLITES

Scale, Gray
USE GRAY SCALE

Scale Integration, Very Large
USE VERY LARGE SCALE INTEGRATION

SCANDINAVIA

Scarps
USE ESCARPMENTS

Scope, Low Intensity X Ray Imaging
USE LIXISCOPES
Scotia, Nova

Scotia, Nova
USE NOVA SCOTIA

SDV
USE SHUTTLE DERIVED VEHICLES

SEASAT 1
USE SHUTTLE DERIVED VEHICLES

(Season), Spring
USE SPRING (SEASON)

Selective Coatings, Solar
USE SELECTIVE SURFACES

SELECTIVE SURFACES

SELF SHADOWING

SEO (Indian Spacecraft)
USE INDIAN SPACECRAFT

Sequence Stars, Pre-Main
USE PRE-MAIN SEQUENCE STARS

SFAR
USE SOUND FIXING AND RANGING

Shadowing, Self
USE SELF SHADOWING

SHELL ANODES

SHIP TO SHORE COMMUNICATION

Shore Communication, Ship To
USE SHIP TO SHORE COMMUNICATION

SHORT CIRCUIT CURRENTS

SHUTTLE DERIVED VEHICLES

Shuttle Orbiter 103, Space
USE SPACE SHUTTLE ORBITER 103

Shuttle Orbiter 104, Space
USE SPACE SHUTTLE ORBITER 104

Signals, Audio
USE AUDIO SIGNALS

Signals, Video
USE VIDEO SIGNALS

Signatures, Infrared
USE INFRARED SIGNATURES

Simulation, Data
USE DATA SIMULATION

Simulation, Motion
USE MOTION SIMULATION

SOBOLEV SPACE

SOFAR
USE SOUND FIXING AND RANGING

SOFTWARE ENGINEERING

SOFTWARE TOOLS

SOLAR BACKSCATTER UV SPECTROMETER

Solar Lasers
USE SOLAR-PUMPED LASERS

SOLAR OPTICAL TELESCOPE

SOLAR PLANETARY INTERACTIONS

Solar Receivers
USE SOLAR COLLECTORS

Solar Selective Coatings
USE SELECTIVE SURFACES

SOLAR THERMAL ELECTRIC POWER PLANTS

SOLAR-PUMPED LASERS

Solid Interactions, Fluid-
USE FLUID-SOLID INTERACTIONS

Solid Zones, Liquid Plus
USE MUSHY ZONES

SOLRAD 10 Satellite
USE EXPLORER 44 SATELLITE

Sonic Fatigue
USE ACOUSTIC FATIGUE

SOT
USE SOLAR OPTICAL TELESCOPE

SOUND FIXING AND RANGING

Sounding Rocket, Aries
USE ARIES SOUNDOING ROCKET

SPACE COMMERCIALIZATION

SPACE HABITATS

Space), Hazardous Material Disposal (In
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

SPACE OPERATIONS CENTER (NASA)

Space Probe, Pioneer 12
USE PIONEER VENUS SPACECRAFT

Space Program, Brazilian
USE BRAZILIAN SPACE PROGRAM

SPACE SHUTTLE ORBITER 103

SPACE SHUTTLE ORBITER 104

Space, Sobolev
USE SOBOLEV SPACE

Space Telescope, Hubble
USE HUBBLE SPACE TELESCOPE

Spacecraft, Canadian
USE CANADIAN SPACECRAFT

Spacecraft, Commercial
USE COMMERCIAL SPACECRAFT

SPACECRAFT EQUIPMENT

Spacecraft), IRS (Indian
USE INDIAN SPACECRAFT

Spacecraft, Japanese
USE JAPANESE SPACECRAFT

SPACECRAFT MAINTENANCE

Spacecraft, Mariner Mark 2
USE MARINER MARK 2 SPACECRAFT

Spacecraft), MOS (Japanese
USE JAPANESE SPACECRAFT

Spacecraft), SEO (Indian
USE INDIAN SPACECRAFT

Speaking, Public
USE PUBLIC SPEAKING

SPECTRAL METHODS

Spectrometer, Solar Backscatter UV
USE SOLAR BACKSCATTER UV SPECTROMETER

Spectrometers, Ion
USE MASS SPECTROMETERS

SPECTROPHOTOVOLTAICS

Spectroscopic Explorer, Far UV
USE FAR UV SPECTROSCOPIC EXPLORER

Speeches
USE LECTURES

NASA THESAURUS SUPPLEMENT (PART 2)

Speed Photography, High
USE HIGH SPEED PHOTOGRAPHY

SPRING (SEASON)

Stars, Double
USE BINARY STARS

Stars, Pre-Main Sequence
USE PRE-MAIN SEQUENCE STARS

Stars, Red Dwarf
USE RED DWARF STARS

Stars, Symbiotic
USE SYMBIOTIC STARS

Start, Air
USE AIR START

States, United
USE UNITED STATES

STATIC CHARACTERISTICS

STATIC MODELS

STELLAR ACTIVITY

STELLAR COLOR

STELLAR COMPOSITION

STELLAR CORES

Steps, Backward Facing
USE BACKWARD FACING STEPS

Steps, Rearward Facing
USE BACKWARD FACING STEPS

STEREOPHONICS

STRANGE ATTRACTIONS

STRATEGIC MATERIALS

Strengths, Oscillator
USE OSCILLATOR STRENGTHS

Struct Test, Drones For Aerodynamic And
USE DAST PROGRAM

Structures, Data
USE DATA STRUCTURES

Structures, Telescoping
USE FOLDING STRUCTURES

SUPERCOMPUTERS

SUPERCRITICAL AIRFOILS

SUPERLATICS

Supplies, Aircraft Power
USE AIRCRAFT POWER SUPPLIES

SURFACE NOISE INTERACTIONS

Surfaces, Minimal
USE MINIMAL SURFACES

Surfaces, Selective
USE SELECTIVE SURFACES

SWATH WIDTH

Switching Rectifiers, Reverse
USE REVERSE SWITCHING RECTIFIERS

SYMBIOTIC STARS

System, Teleoperator Maneuvering
USE TELEOPERATORS

System, Transit Navigation
USE TRANSIT NAVIGATION SYSTEM

Systems Design, Controlled
USE CONTROLLED SYSTEMS DESIGN
Systems, Embedded Computer
USE EMBEDDED COMPUTER SYSTEMS

Systems, Expert
USE EXPERT SYSTEMS

Systems, Flight Management
USE FLIGHT MANAGEMENT SYSTEMS

Systems, Geographic Information
USE GEOGRAPHIC INFORMATION SYSTEMS

Systems, Integrated Library
USE INTEGRATED LIBRARY SYSTEMS

Systems, Mobile Communication
USE MOBILE COMMUNICATION SYSTEMS

Systems, Virtual Memory
USE VIRTUAL MEMORY SYSTEMS

Timing Explorer, X Ray
USE X RAY TIMING EXPLORER

TIP VANES

Tools, Software
USE SOFTWARE TOOLS

TOPPING CYCLE ENGINES

Transducers, Interdigital
USE INTERDIGITAL TRANSDUCERS

Transfer, Payload
USE PAYLOAD TRANSFER

TRANSIT NAVIGATION SYSTEM

Transit Vehicles, Automated
USE AUTOMATED TRANSIT VEHICLES

Transport Program, Energy Efficiency
USE AEE PROGRAM

Triaminoguanidininitrate
USE TAGN

Triaminotribromobenzene
USE TATB

TRIBOLUMINESCENCE

Tropsch Process, Fischer-
USE FISCHER-TROPSCH PROCESS

TYROSINE

ULTRALIGHT AIRCRAFT

UNIFIED FIELD THEORY

UNITED STATES

Units, Agrophysical
USE AGROPHYSICAL UNITS

Units, Manned Maneuvering
USE MANNED MANEUVERING UNITS

US-2A Aircraft
USE S-2 AIRCRAFT

UV Spectrometer, Solar Backscatter
USE SOLAR BACKSCATTER UV SPECTROMETER

UV Spectroscopic Explorer, Far
USE FAR UV SPECTROSCOPIC EXPLORER

V

Valves, Frequency, Brunt-
USE BRUNT-VAISALA FREQUENCY

Valves, Light
USE LIGHT VALVES

Vanes, Tip
USE TIP VANES

VARIANCES
USE CATAclySMIC VARIABLES

VCO
USE VOLTAGE CONTROLLED OSCILLATORS

VEGETATIVE INDEX

Vehicles, Automated Transit
USE AUTOMATED TRANSIT VEHICLES

Vehicles, Orbital Maneuvering
USE ORBITAL MANEUVERING VEHICLES

Vehicles, Shuttle Derived
USE SHUTTLE DERIVED VEHICLES

Vertical Attitude Takeoff-Landing Aircraft
USE VATOL AIRCRAFT

VERY LARGE SCALE INTEGRATION

VIRTUAL MEMORY SYSTEMS

VLSI
USE VERY LARGE SCALE INTEGRATION

W

WASTE HEAT

Wastes, Nuclear
USE RADIOACTIVE WASTES

Waveguides, Circular
USE CIRCULAR WAVEGUIDES

Waveguides, Rectangular
USE RECTANGULAR WAVEGUIDES

WESTERN HEMISPHERE

WHIRL TOWERS

Width, Swath
USE SWATH WIDTH

Wings, Aerelastic Research
USE AEREOELASTIC RESEARCH WINGS

Wings, Cranked
USE SWEPT WINGS

Wolfram
USE TUNGSTEN

X

X Ray Imaging Scopes, Low Intensity
USE LIxiscOPES

X RAY TIMING EXPLORER

XENON CHLORIDE LASERS

York City (NY), New
USE NEW YORK CITY (NY)

Y

YUKON TERRITORY

YUKON TERRITORY
Zones, Float
USE FLOTZ ZONES

Zones, Liquid Plus Solid
USE MUSHY ZONES

Zones, Mushy
USE MUSHY ZONES

NUMERICAL LISTING

1, SEASAT
USE SEASAT 1

2 Satellite, P78-
USE SCATHA SATELLITE

2 Spacecraft, Mariner Mark
USE MARINER MARK 2 SPACECRAFT

2A Aircraft, US-
USE S-2 AIRCRAFT

4, LANDSAT
USE LANDSAT 4

5, LANDSAT
USE LANDSAT 5

8 Satellite, NOAA
USE NOAA 8 SATELLITE

10 Satellite, Solar
USE EXPLORER 44 SATELLITE

12 Space Probe, Pioneer
USE PIONEER VENUS SPACECRAFT

44 Satellite, Explorer
USE EXPLORER 44 SATELLITE

46 Satellite, Explorer
USE EXPLORER 46 SATELLITE

103, Space Shuttle Orbiter
USE SPACE SHUTTLE ORBITER 103

104, Space Shuttle Orbiter
USE SPACE SHUTTLE ORBITER 104

205 Computer, CDC Cyber
USE CDC CYBER 205 COMPUTER

310 Aircraft, A-
USE A-310 AIRCRAFT

320 Aircraft, A-
USE A-320 AIRCRAFT

954 Satellite, Cosmos
USE COSMOS 954 SATELLITE
NASA THESAURUS SUPPLEMENT

PART 3
DELETIONS

AEROMAGNETISM
Use GEOMAGNETISM
Deleted, term now postable

BARYON RESONANCES
Transferred to BARYON RESONANCE

CAMBODIA
Transferred to KAMPUCHEA

CHINA (Array term)
Deleted

CHINA (MAINLAND)
Transferred to CHINA

CHINA (TAIWAN)
Transferred to TAIWAN

COMPUTERIZED DESIGN
Transferred to COMPUTER AIDED DESIGN

CONDENSERS (LIQUEFIERS)
Transferred to CONDENSERS (LIQUEFIERS)

DAHOMEY
Transferred to BENIN

DIKES
Use ROCK INTRUSIONS
Deleted

DIFFERENTIAL ANALYZERS
Use ANALOG COMPUTERS
Deleted, term now postable

DIRECTORIES
Use INDEXES (DOCUMENTATION)
Deleted

EXERCISE (PHYSIOLOGY)
Use PHYSICAL EXERCISE
Deleted

EXPERIMENTAL DESIGN
Transferred to EXPERIMENT DESIGN

FLUOROPHLOGOPITE
Transferred to FLUOROPHLOGOPITE

GIOTTO MISSION
Use EUROPEAN SPACE PROGRAM
HALLEY'S COMET
Deleted, term now postable

IMAGING RADAR
Use SYNTHETIC APERTURE RADAR
Deleted, term now postable

INFORMATION TRANSFER
Use COMMUNICATING
Deleted, term now postable

INTELSAT 1 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 2 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 3 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 4 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT SB SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT SC SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT SF SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 4A SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 4B SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5A SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5F SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5G SATELLITE
Transferred to INTELSAT SATELLITES

K-MESONS
Transferred to KAONS

LANDSAT D
Transferred to LANDSAT 4

LARGE SPACE TELESCOPE
Transferred to HUBBLE SPACE TELESCOPE

LOW INTENSITY X-RAY IMAGING SCOPE
Transferred to LOW INTENSITY X RAY IMAGING SCOPE

LOWER BODY NEGATIVE PRESSURE (LBNP)
Use ACCELERATION STRESSES (PHYSIOLOGY)
Deleted

LUNAR ATMOSPHERES
Transferred to LUNAR ATMOSPHERE

MESON RESONANCES
Transferred to MESON RESONANCE

MUCOUS
Transferred to MUCUS

NORTH VIETNAM
Transferred to VIETNAM

OKHOTSUK SEA
Transferred to SEA OF OKHOTSUK

PHASED LOCKED SYSTEMS
Transferred to PHASE LOCKED SYSTEMS

RADIATION MEDICINE
Transferred to NUCLEAR MEDICINE

RCA SATCOM C
Transferred to RCA SATCOM SATELLITES

RCA SATCOM 1
Transferred to RCA SATCOM SATELLITES

RCA SATCOM 2
Transferred to RCA SATCOM SATELLITES

ROMANIA
Use RUMANIA
Deleted

RUMANIA
Transferred to ROMANIA

SEASAT-A SATELLITE
Transferred to SEASAT 1

THrustORS
Use ROCKET ENGINES
Deleted, term now postable

TIROS N SATELLITES
Transferred to TIROS N SERIES SATELLITES

TRANSIT 1A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 1B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 2A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 3B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 4A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 4B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 5A SATELLITE
Transferred to TRANSIT SATELLITES

UNITED STATES OF AMERICA
Transferred to UNITED STATES

VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT
Use VATOL AIRCRAFT
Changed to
VERTICAL ATTITUDE TAKEOFF-LANDING
AIRCRAFT
Use VATOL AIRCRAFT
The three part cumulative NASA Thesaurus Supplement to the 1982 edition of the NASA Thesaurus includes Part 1, Hierarchical Listing, Part 2, Access Vocabulary, and Part 3, Deletions. The semiannual supplement gives complete hierarchies for new terms and includes new term indications for terms new to this supplement.